

Distinguished Lecture Series on Network Science and Research

In light of the growing interest and importance of network science and network research to the Penn State Research community, the Office of the Senior Vice President for Research is sponsoring this series. Prominent national experts are scheduled to present talks on campus throughout the academic year. The goal is to clarify the underlying principles in this intrinsically interdisciplinary research area and to bring the diverse community of Penn State researchers together around common themes to explore how their research might benefit from intellectual cross-fertilization.



“Diffusion Implications of Network Dynamics”

James Moody, Department of Sociology,
Duke University

Tuesday, February 24, 2009

1:00 p.m. – 2:30 p.m.

112 Kern Building

Abstract:

Professor Moody will discuss diffusion processes in dynamic networks, with a focus on disease and information systems, as well as graph-theoretic limits on diffusion. The work identifies contrasting effects for typical structural features (small world, degree distributions, etc.) and introduces new measures and graphical representations for diffusion over dynamic graphs.

Biography:

James Moody is an Associate Professor of Sociology at Duke University. His research focuses on the structural dynamics of social networks. The substantive contexts of his work range widely, from high school social network structure to the spread of HIV/AIDs in developing nations. His current projects include a book on the visual history of social networks, collaborations with colleagues at Penn State and Stanford on the dynamics of youth networks, and mapping the dynamics of science collaboration networks to identify the social contexts of good ideas.

**Sponsored by the College of Liberal Arts, College of Health & Human Development,
Social Science Research Institute, and the Office of the Senior Vice President for Research**